

IN THE SPECIFICATION:

Please amend the following paragraphs as indicated:

Paragraph beginning on page 1, line 1:

~~TITLE OF THE INVENTION~~

~~Wireless Extension of Local Area Networks~~

Paragraph beginning on page 9, line 11:

Fig. 2A also shows the implementation of completely wireless access points (200, 202). As shown in the Fig. 2A, access point (200) directly wirelessly communicates with personal computer (212), and access point (202) directly wirelessly communicates with personal computer (210). The access points (200, 202) are not wired to a LAN as in the prior art illustrated in Fig. 1. Consequently, the access points (200, 202) can be easily and readily deployed as necessary to extend the network as desired.

Paragraph beginning on page 9, line 17:

As shown in Fig. 2B, the wireless access points (200, ~~102~~202) of the present invention can also be added to a traditional wired network as depicted in Fig. 1 to extend the coverage of the network. As shown in Fig. 2B, the wireless access point (200) wireless connects a portable device (130) with the rest of the networked devices through access point (100) which is, in turn, wired into the wired network through the network hub (140).

Paragraph beginning on page 10, line 22:

Fig. 3 shows an alternative implementation of an access point according to the present invention that connects into an existing wired network that uses power-line modems and an AC power line for connectivity. As shown in Fig. 3, personal computers (310, 312) and peripheral (320) are all networked using existing power-line networking technology in the form of power-line modems (344, 346, 348). All messages for any devices on the network

(e.g, 320, 310, 312, 314 and 330) are broadcast on the power line (~~300~~ 301), and each power-line modem (e.g, 340, 342, 344, 346, 348) ignores all messages except the ones intended for its device or a device wireless communicating with an access point (300, 302) connected to that power-line modem (340, 342). The intended recipient device of the messages are defined by the internet protocol, such as TCP/IP.

Paragraph beginning on page 11, line 3:

As in the previous figures, the portable device (330) and personal computer (314) wirelessly communicate with access points (300) and (302) respectively. The access points (300, 302) receive the wireless messages from the portable device (330) and personal computer (314) and broadcast them to the power-line network (~~300~~ 301) through power-line modems (342) and (340) respectively. Any messages that are intended for the portable device (330) are received by power-line modem (342) and broadcast by access point (300) to the portable device (330). Any messages intended for personal computer (314) are received by power-line modem (340) and broadcast by access point (302) to the personal computer (314).

Paragraph beginning on page 12, line 16:

Fig. 5 is a block diagram of a power-line network access point (e.g., 300, 302 in Fig. 3), implemented as the combination of access point (300, Fig. 3) and power-line modem (342, Fig. 3). Most blocks have the same functionality as in Fig. 4, with the addition of the power-line modem (530). This modem (530) sends and receives messages between the controller (401) and the AC power line (~~300~~ 301, Fig. 3) through connector (415).